

# DevOps Overview

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## Jstroheker.com

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## Code....code....code....

# Studies in development

## Basket-Ball fan

# #TalkDevOps



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# dev Op Overview

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DevOps is not...

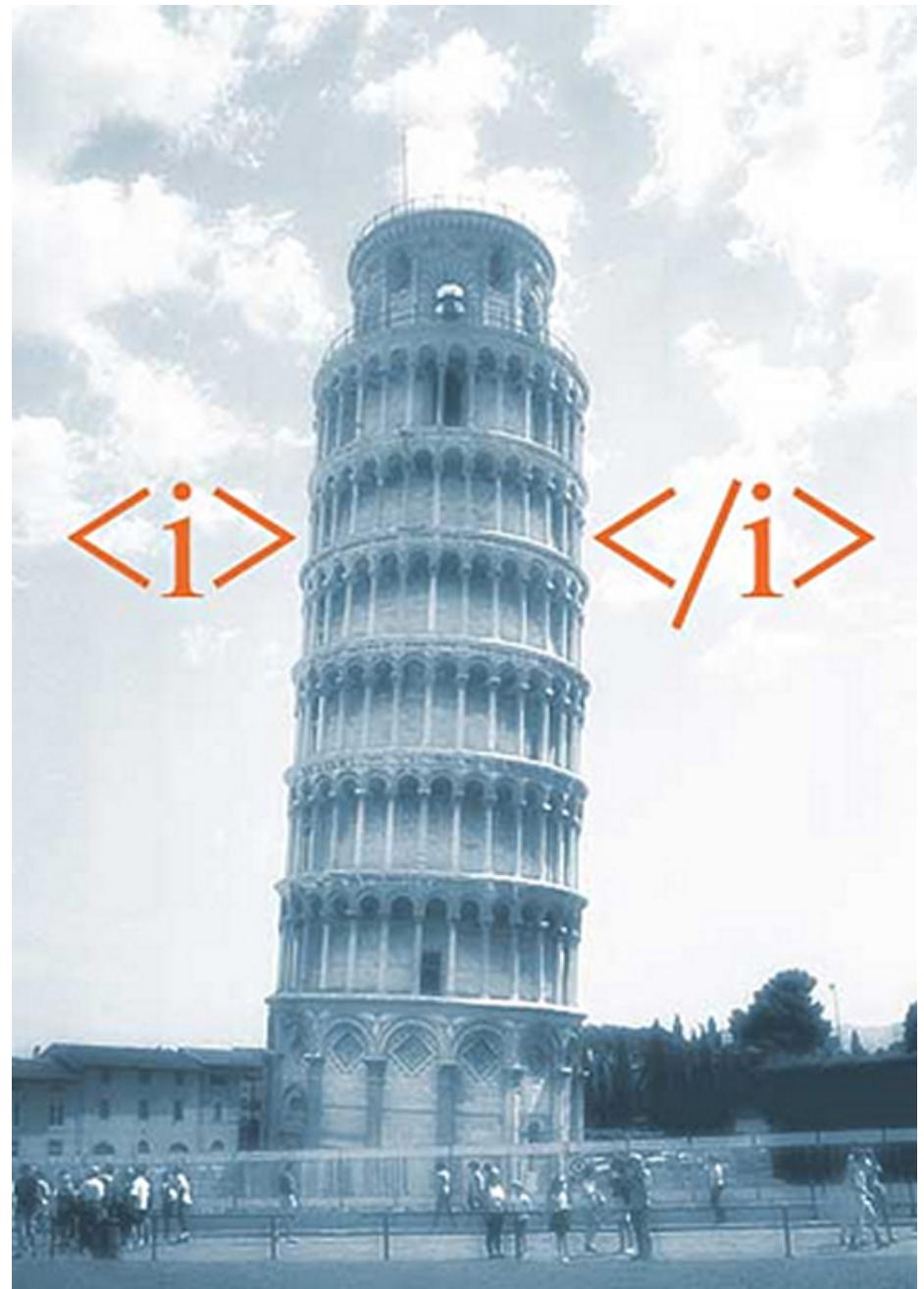
...separate new DevOps team



- ➔ Creates just another “silo” of management
- ➔ Results in increased staff and complexity

## ... a reason to have no operations

- ④ In reality the operations role just shifts
- ④ Results in higher cost, lower quality



# DevOps “project”

- ④ Modern IT and DevOps is not a “project” and doesn’t have an “end”.
- ④ DevOps re-imagines how to deliver IT, including communication and automation



# ... tool fixing culture

- ④ Tools don't directly fix culture, even when deploying automation
- ④ Tools can help fix culture when used as a catalyst to implement organizational change

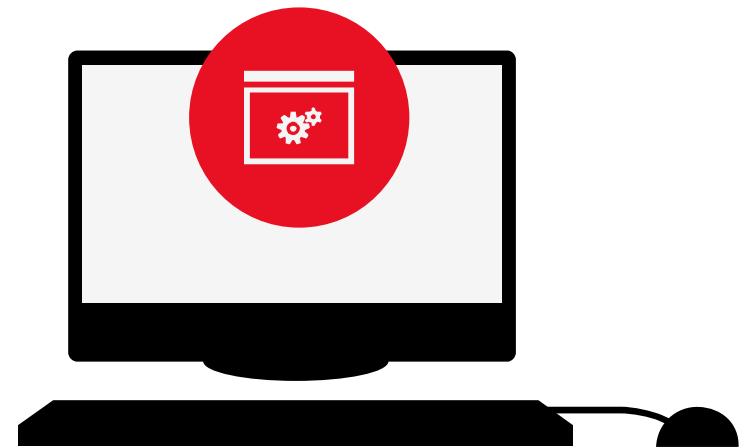
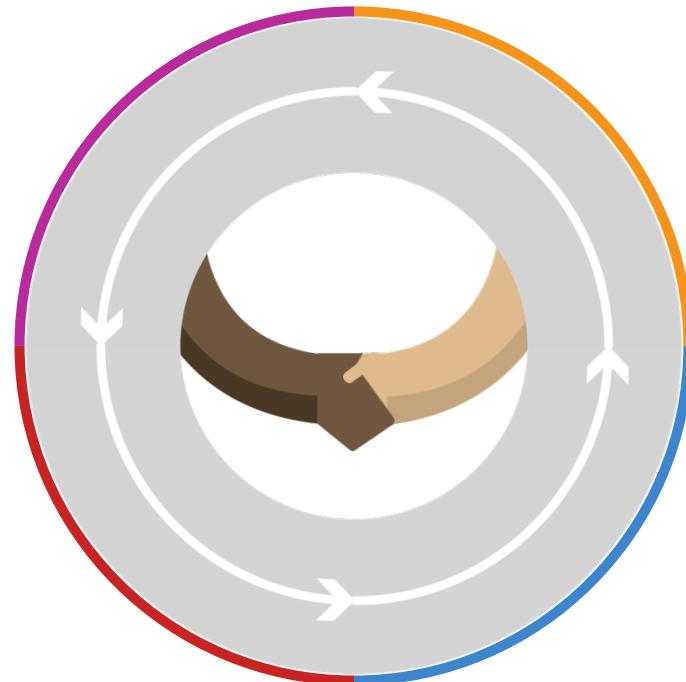
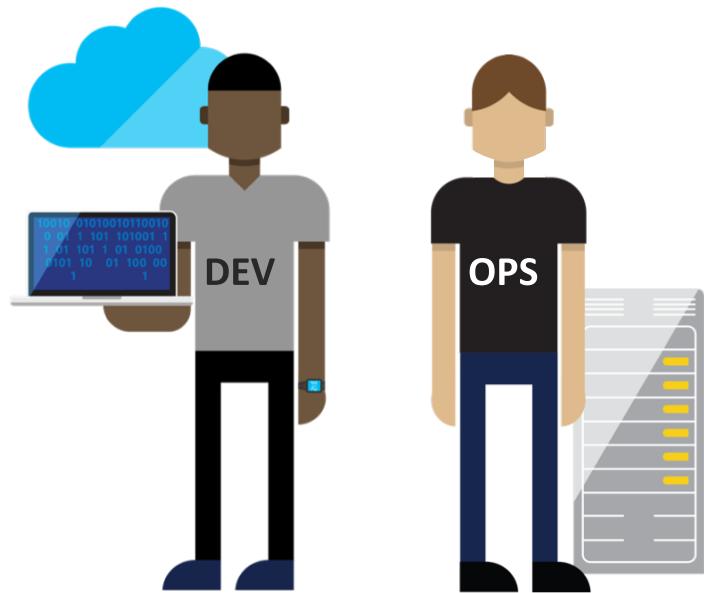


... “one-time DevOps workshop”



- ④ Workshops in the enterprise are common and don't have the momentum to create change
- ④ DevOps needs to be an intentional change, not just influence driven change.

# DevOps: the three stage conversation

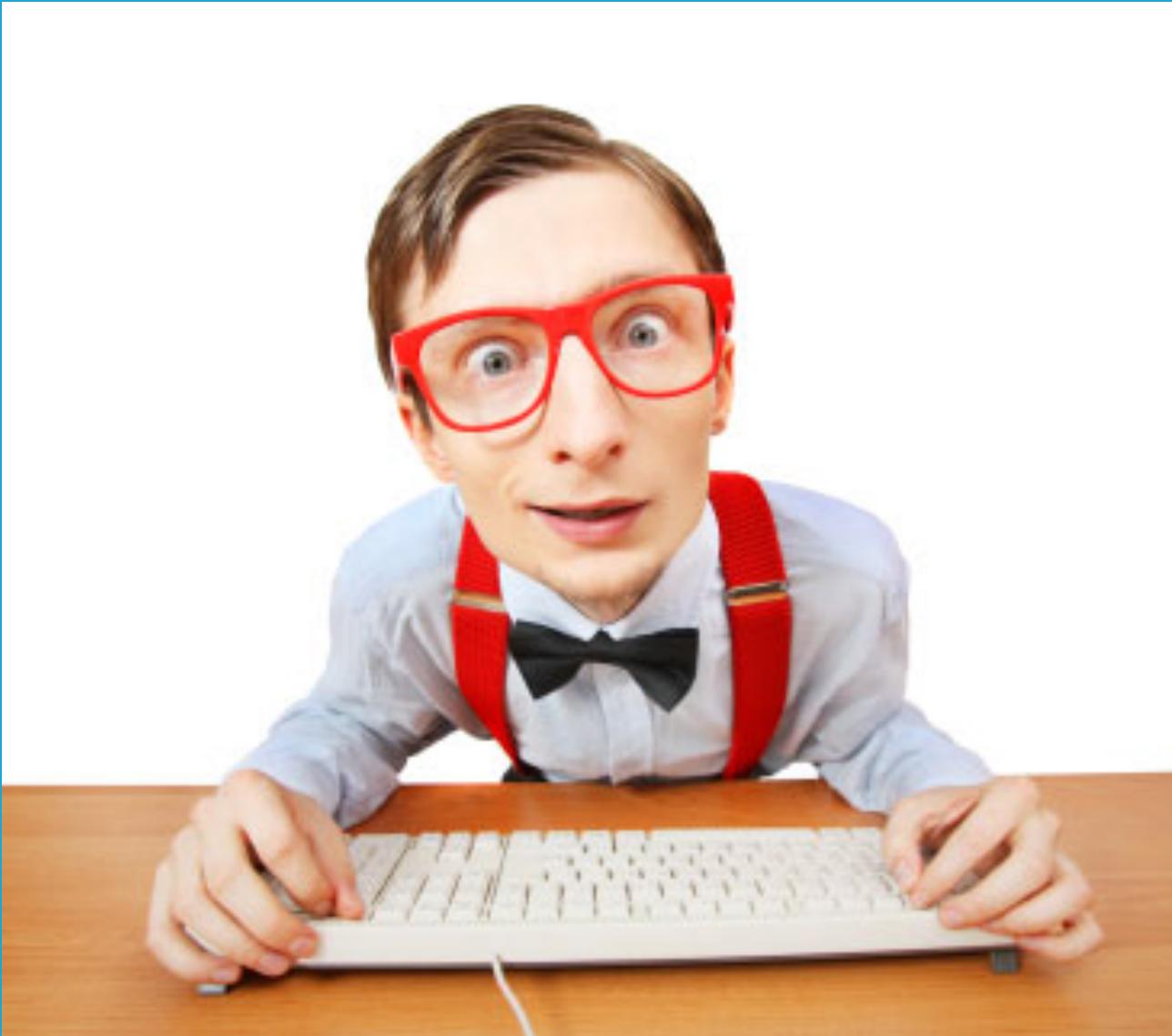


**1** | People

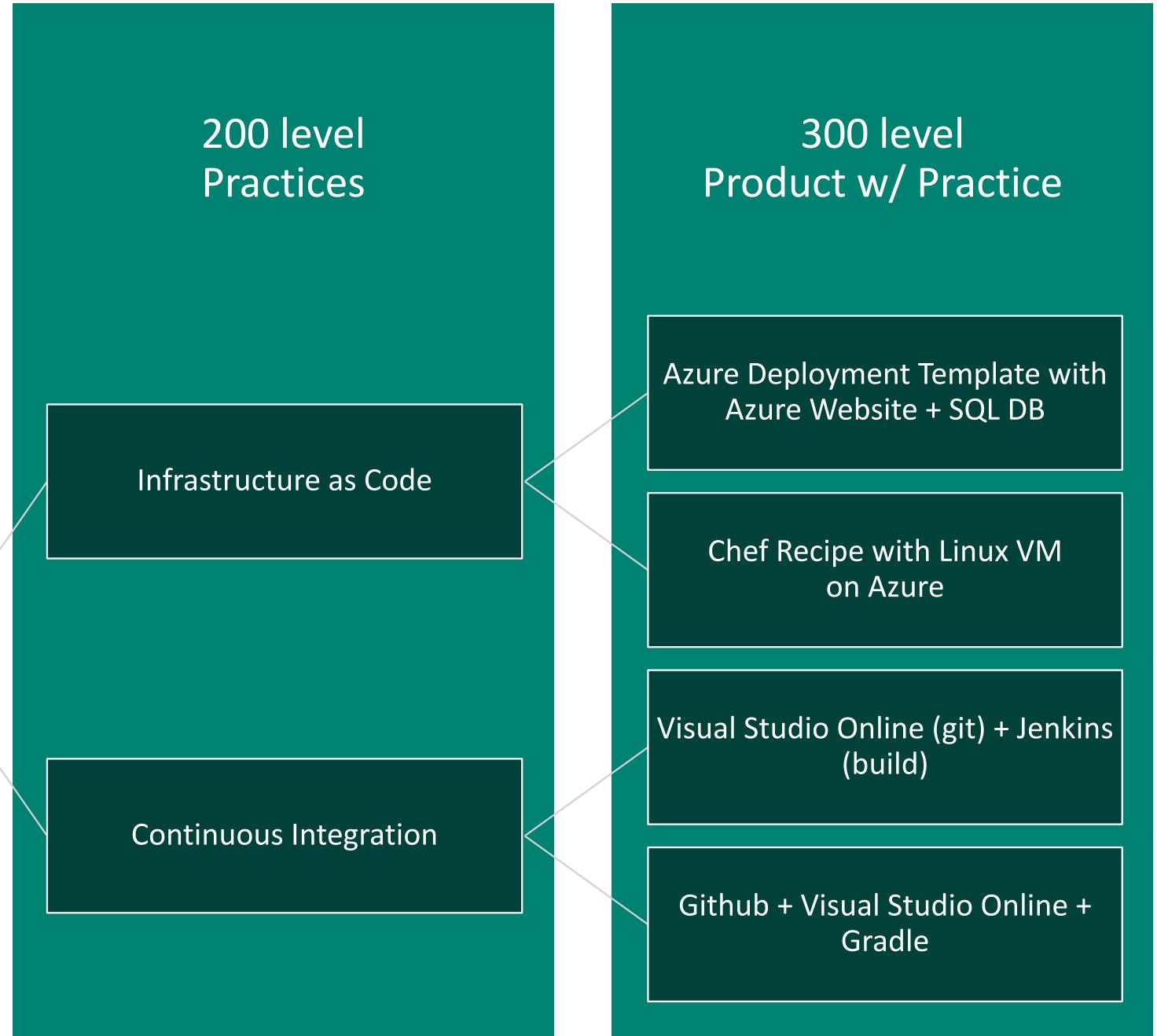
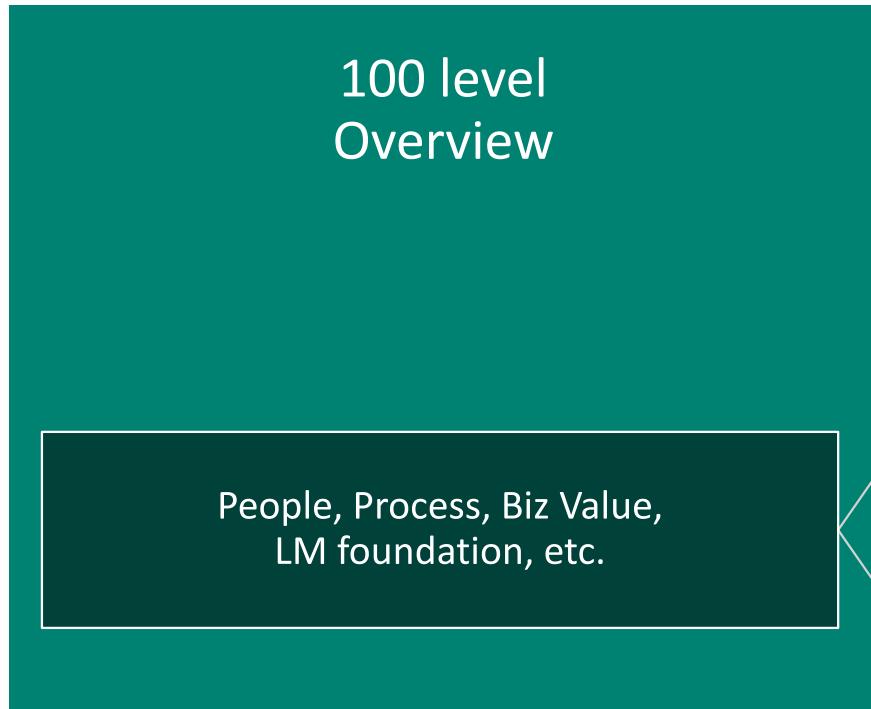
**2** | Process

**3** | Products

# Enabling DevOps Practices



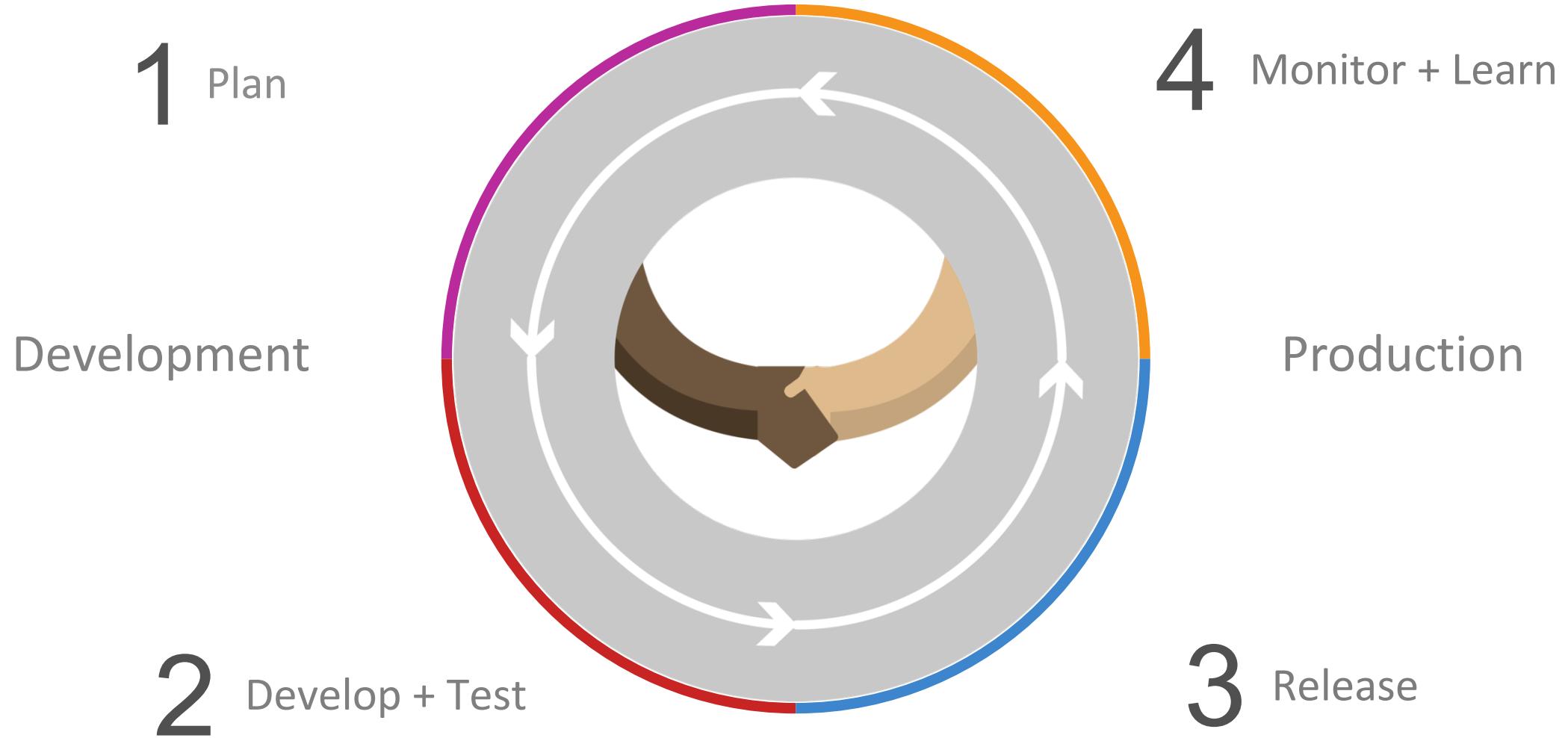
# DevOps Frame



# List of DevOps Practices

- Infrastructure as Code (IaC)
- Continuous Integration
- Automated Testing
- Continuous Deployment
- Release Management
- App Performance Monitoring
- Load Testing & Auto-Scale
- Availability Monitoring
- Change/Configuration Management
- Feature Flags
- Automated Environment De-Provisioning
- Self Service Environments
- Automated Recovery (Rollback & Roll-Forward)
- Hypothesis Driven Development
  - Testing in Production
  - Fault Injection
  - Usage Monitoring/User Telemetry

# DevOps



# Sample Applications

## Fabrikam Fiber

<https://github.com/dtzar/FabrikamFiber>

Azure Website + SQL Azure DB

## Parts Unlimited

<https://github.com/Microsoft/PartsUnlimited>

Azure Website + SQL Azure DB (with lots of advanced features enabled in the deployment template themselves)

## Parts Unlimited MRP

<https://github.com/Microsoft/PartsUnlimitedMRP>

Linux, Java, Tomcat, MongoDB application with Chef Recipe